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L14 ANSWER 1 OF 1 HCA COPYRIGHT 2002 ACS
ACCESSION NUMBER: **128:193317** HCA
TITLE: Unsaturated polyester compositions with easy control of viscosity increase for SMC (sheet molding compound)
INVENTOR(S): Watanabe, Masahiko; Tanaka, Kazuyuki
PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan
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PATENT INFORMATION:

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AB The title compns. comprise (A) unsatd. polyesters, (B) vinyl ester resins [prepd. by reaction of (a) .gtoreq.2 epoxy groups-contg. bisphenol-based epoxy compds. with (b) unsatd. monocarboxylic acids and then addn.-reaction of carboxylic anhydrides to the secondary OH groups of (a) and/or the secondary OH groups formed by reaction of (a) and (b)], (C) polymerizable monomers, and optionally (D) .gtoreq.1 compds. chosen from divalent metal oxides and divalent metal hydroxides. Thus, an unsatd. polyester [prepd. from isophthalic acid 274, propylene glycol 460, and maleic anhydride (MA) 403 g] 35.0, a vinyl ester resin (prepd. from Epikote-828 680, methacrylic acid 309, and MA 87 g) 15.0, styrene 40.0, butadiene-styrene copolymer 10.0, MgO 5.0, p-benzoquinone 0.075, tert-butylperoxy benzoate 1.45, Al(OH)3 180, and Zn stearate 5.0 parts were mixed to give a compn., which showed viscosity 18 Pa.cntdot.s initially and 12,800 Pa.cntdot.s after 24 h and gave a SMC molding with good mech. properties.